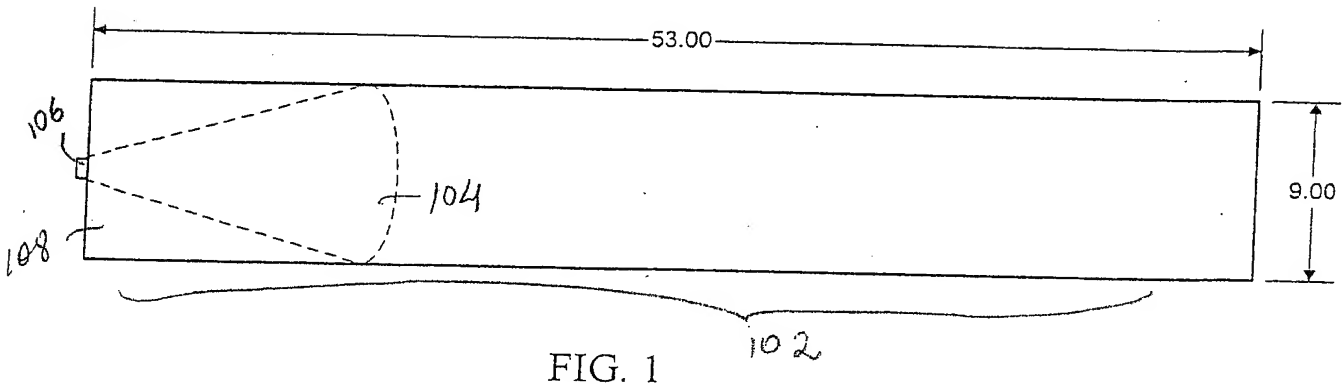


FIG. 1

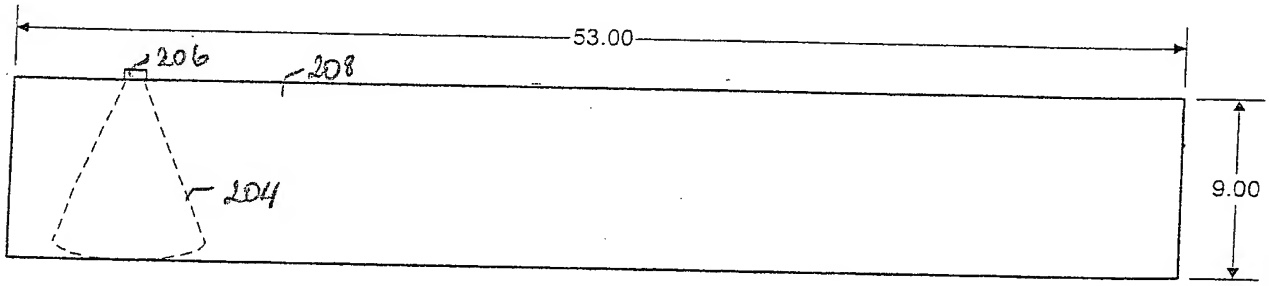


FIG. 2

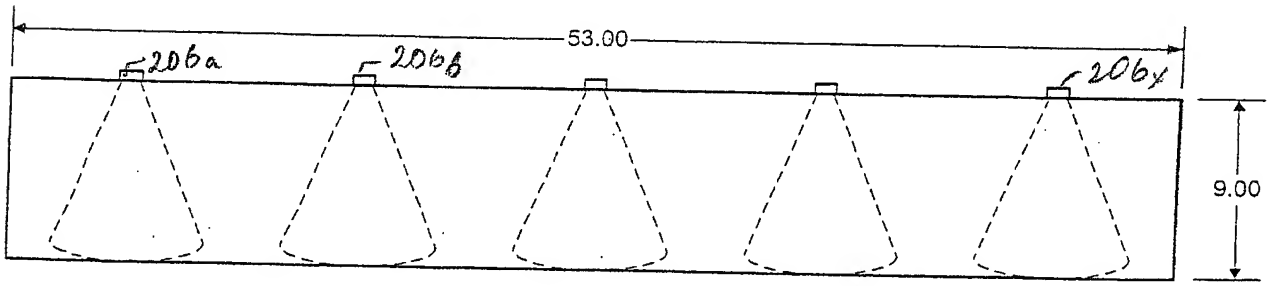


FIG. 3

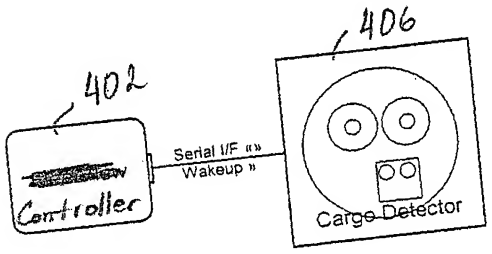

406
402
Serial I/F «»
Wakeup »
Controller
Cargo Detector

FIG. 4

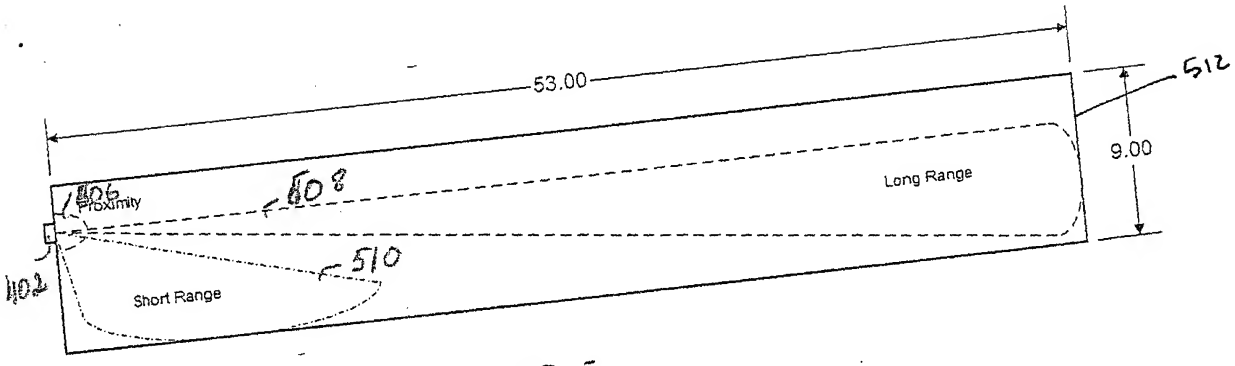

53.00
512
9.00
406
Proximity
508
Long Range
510
402
Short Range

FIG. 5

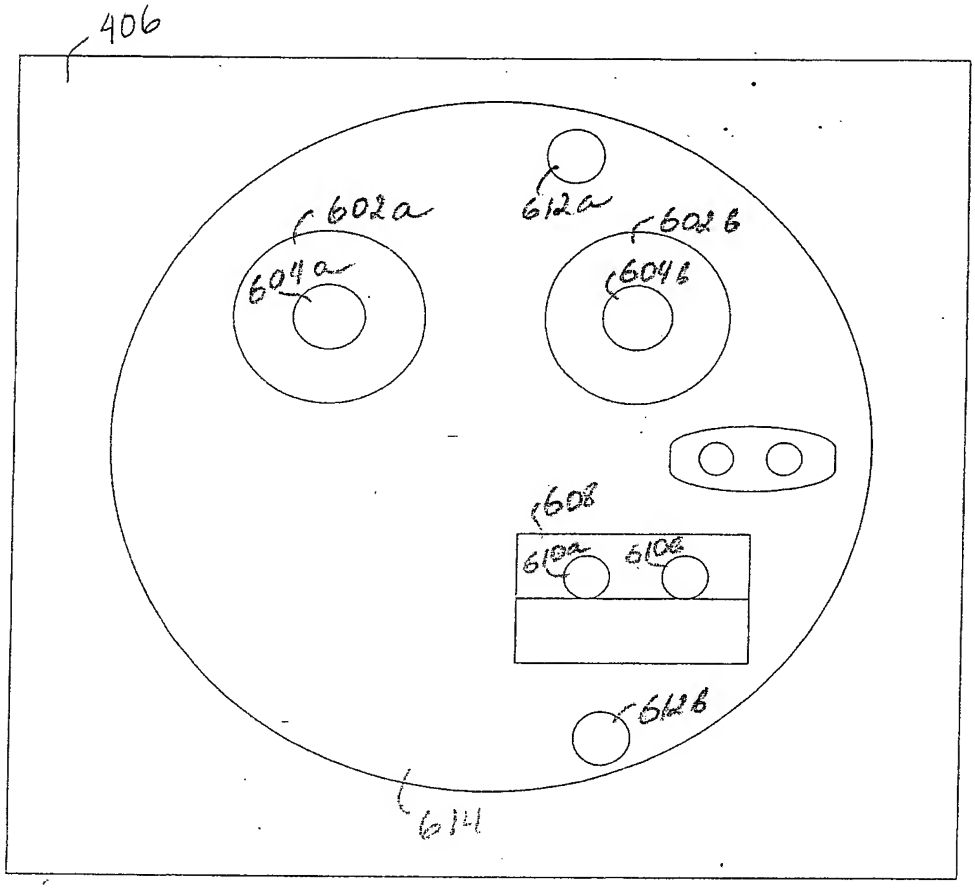
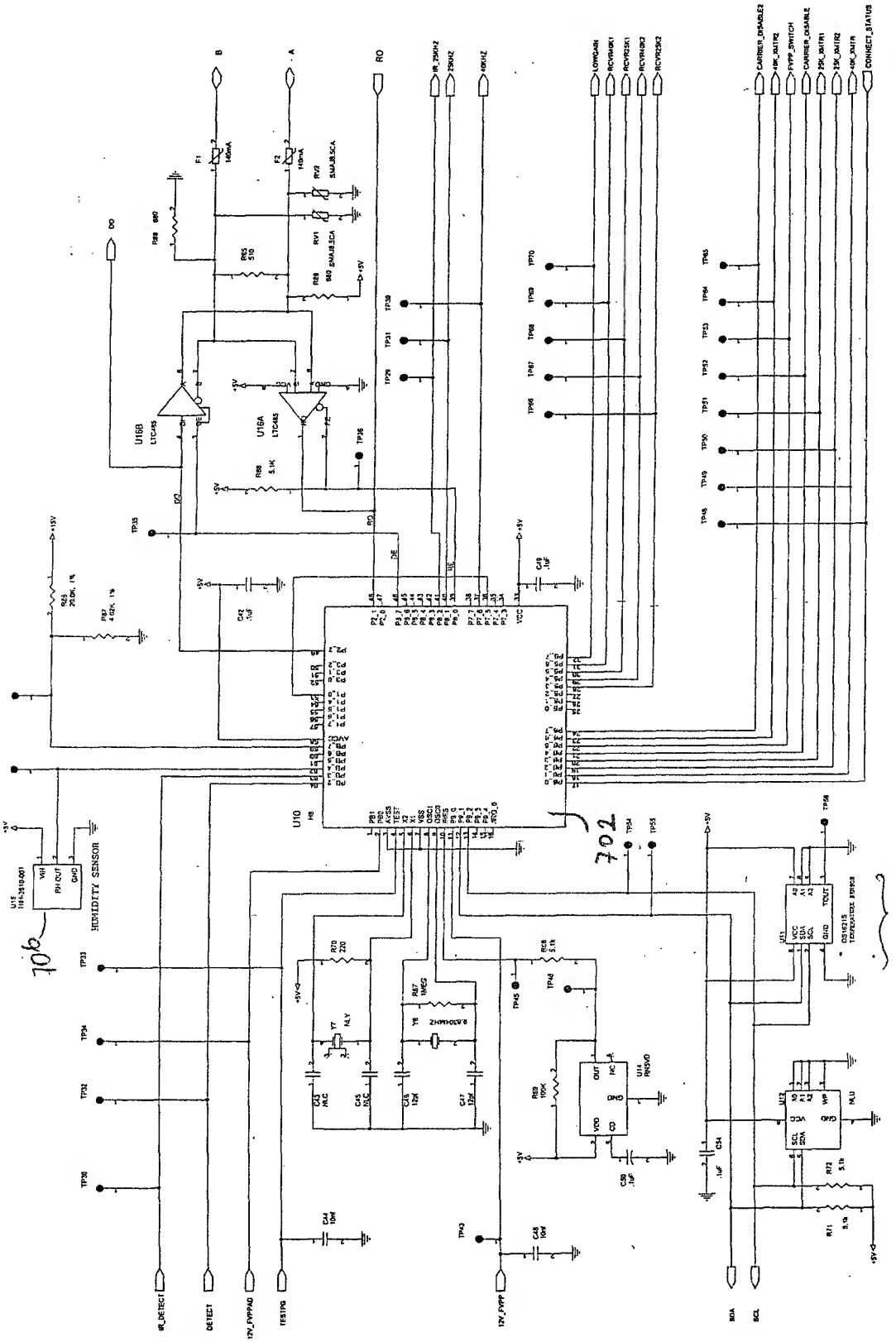


Fig. 6


B
A
RO
DO
DE
U16B
LTC485
U16A
LTC485
U10
HUMIDITY SENSOR
106
702
704
IR_DETECT
DETECT
12V_FYPPAD
TESTPD
12V_FYPP
SDA
SCL

9 of 2

Fig. 7

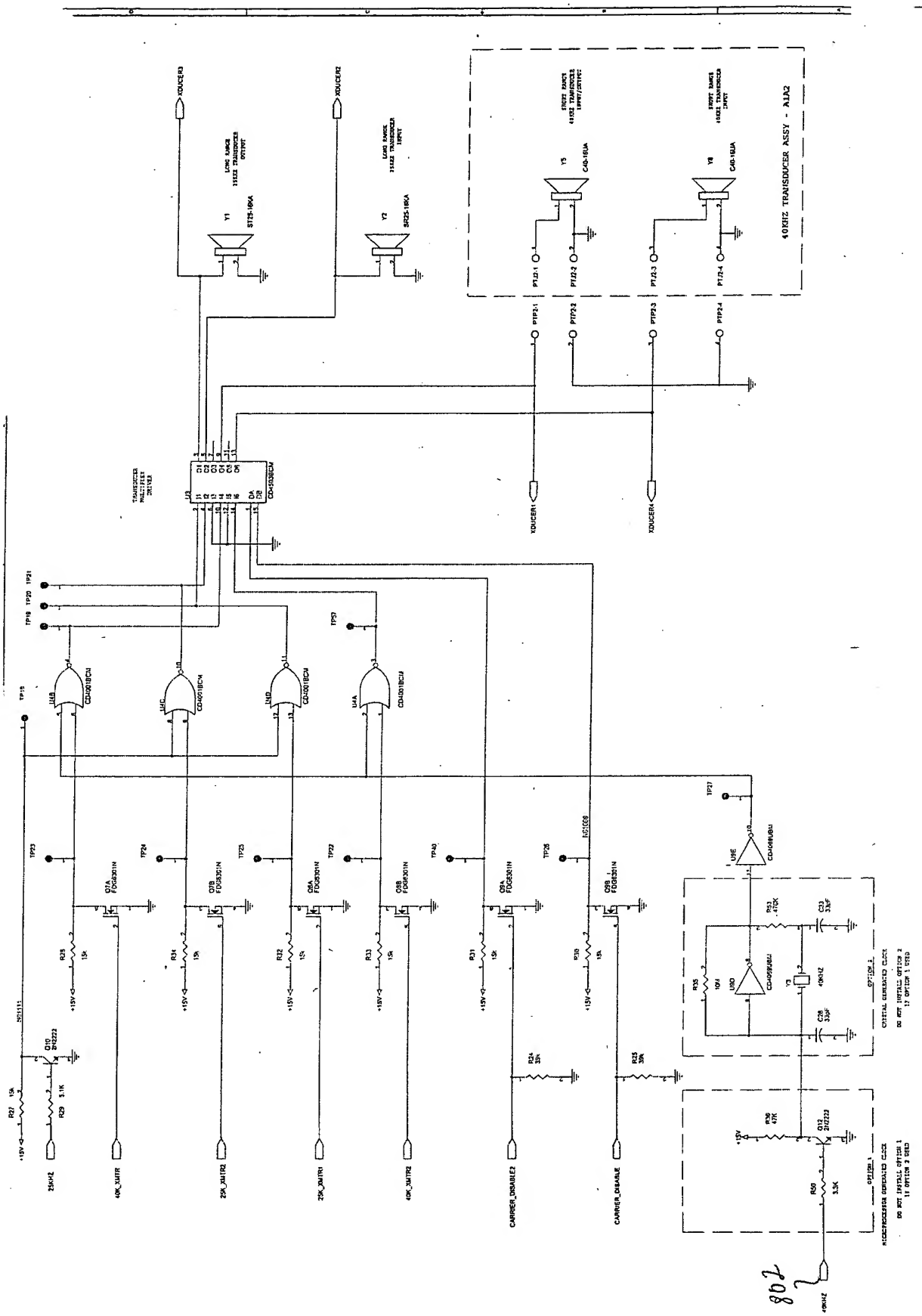

40KHZ TRANSDUCER ASSY - A1A2
XDUCER3
XDUCER2
XDUCER1
XDUCER4
Y1
STS-16KA
Y2
SRCS-16KA
Y5
C40-16UA
Y6
C40-16UA
U3
CD4050BCM
U4B
U4C
U4D
U4A
CD4001BCM
Q1A
Q1B
Q6A
Q6B
Q5A
Q5B
FDG6301N
Q10
2N2222
Q12
2N2222
U5E
CD4069UBM
U5D
CD4093BCM
Y3
40KHZ
25KHZ
40K_XMTR
25K_XMTR2
25K_XMTR1
40K_XMTR2
CARRIER_DISABLE2
CARRIER_DISABLE
40KHZ

Fig. 8

802

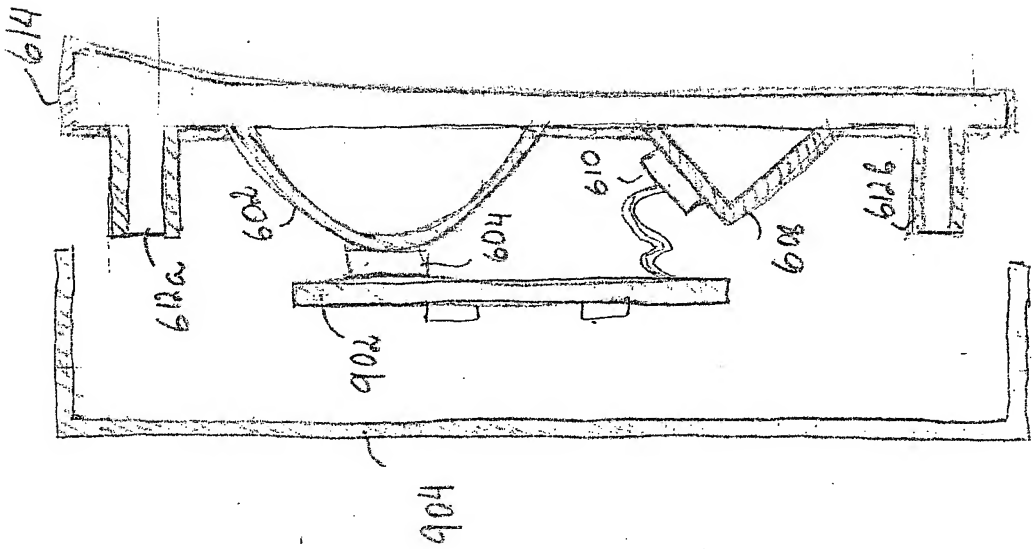


Fig 9

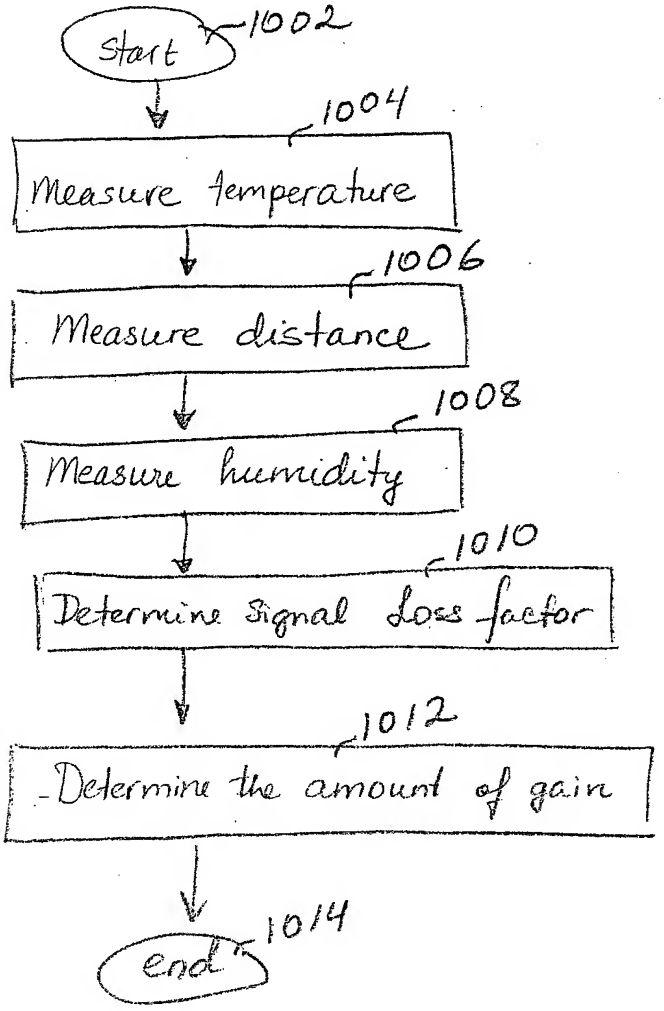

Start
1002
Measure temperature
1004
Measure distance
1006
Measure humidity
1008
Determine signal loss factor
1010
Determine the amount of gain
1012
End
1014

Fig. 10

Distance Timer
830µs (60°C)
875µs (25°C)
925µs (-5°C)
½ foot
Terion Proprietary Information

Fig. 11